

# Moshawe Madito

## List of Publications by Year in descending order

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64  
papers

2,087  
citations

218677

26  
h-index

243625

44  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2856  
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric supercapacitor based on VS <sub>2</sub> nanosheets and activated carbon materials. RSC Advances, 2016, 6, 38990-39000.	3.6	109
2	Hydrothermal synthesis of manganese phosphate/graphene foam composite for electrochemical supercapacitor applications. Journal of Colloid and Interface Science, 2017, 494, 325-337.	9.4	98
3	High performance asymmetric supercapacitor based on molybdenum disulphide/graphene foam and activated carbon from expanded graphite. Journal of Colloid and Interface Science, 2017, 488, 155-165.	9.4	97
4	A high energy density asymmetric supercapacitor utilizing a nickel phosphate/graphene foam composite as the cathode and carbonized iron cations adsorbed onto polyaniline as the anode. RSC Advances, 2018, 8, 11608-11621.	3.6	90
5	Preparation and characterization of porous carbon from expanded graphite for high energy density supercapacitor in aqueous electrolyte. Journal of Power Sources, 2016, 309, 245-253.	7.8	85
6	Activated carbon derived from tree bark biomass with promising material properties for supercapacitors. Journal of Solid State Electrochemistry, 2017, 21, 859-872.	2.5	84
7	Effect of porosity enhancing agents on the electrochemical performance of high-energy ultracapacitor electrodes derived from peanut shell waste. Scientific Reports, 2019, 9, 13673.	3.3	80
8	Synthesis and characterization of porous carbon derived from activated banana peels with hierarchical porosity for improved electrochemical performance. Electrochimica Acta, 2018, 262, 187-196.	5.2	76
9	High performance asymmetric supercapacitor based on CoAl-LDH/GF and activated carbon from expanded graphite. RSC Advances, 2016, 6, 46723-46732.	3.6	70
10	Asymmetric supercapacitor based on vanadium disulfide nanosheets as a cathode and carbonized iron cations adsorbed onto polyaniline as an anode. Electrochimica Acta, 2018, 260, 11-23.	5.2	68
11	Synthesis of ternary NiCo-MnO <sub>2</sub> nanocomposite and its application as a novel high energy supercapattery device. Chemical Engineering Journal, 2018, 335, 416-433.	12.7	64
12	Asymmetric supercapacitor based on an $\text{V}_2\text{O}_5$ cathode and porous activated carbon anode materials. RSC Advances, 2015, 5, 37462-37468.	3.6	59
13	Stability studies of polypyrrole- derived carbon based symmetric supercapacitor via potentiostatic floating test. Electrochimica Acta, 2016, 213, 107-114.	5.2	56
14	High performance hybrid supercapacitor device based on cobalt manganese layered double hydroxide and activated carbon derived from cork (Quercus Suber). Electrochimica Acta, 2017, 252, 41-54.	5.2	54
15	Symmetric supercapacitor with supercapattery behavior based on carbonized iron cations adsorbed onto polyaniline. Electrochimica Acta, 2018, 262, 82-96.	5.2	52
16	High electrochemical performance of hierarchical porous activated carbon derived from lightweight cork (Quercus suber). Journal of Materials Science, 2017, 52, 10600-10613.	3.7	47
17	Three dimensional vanadium pentoxide/graphene foam composite as positive electrode for high performance asymmetric electrochemical supercapacitor. Journal of Colloid and Interface Science, 2018, 532, 395-406.	9.4	44
18	Solvothermal synthesis of surfactant free spherical nickel hydroxide/graphene oxide composite for supercapacitor application. Journal of Alloys and Compounds, 2017, 721, 80-91.	5.5	42

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19	Simonkolleite-graphene foam composites and their superior electrochemical performance. <i>Electrochimica Acta</i> , 2015, 151, 591-598.	5.2	40
20	Preparation and electrochemical investigation of the cobalt hydroxide carbonate/activated carbon nanocomposite for supercapacitor applications. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 88, 60-67.	4.0	37
21	A facile hydrothermal reflux synthesis of Ni(OH) <sub>2</sub> /GF electrode for supercapacitor application. <i>Journal of Materials Science</i> , 2016, 51, 6041-6050.	3.7	36
22	High-performance symmetric supercapacitor device based on carbonized iron-polyaniline/nickel graphene foam. <i>Journal of Alloys and Compounds</i> , 2020, 819, 152993.	5.5	36
23	Electrochemical performance of polypyrrole derived porous activated carbon-based symmetric supercapacitors in various electrolytes. <i>RSC Advances</i> , 2016, 6, 68141-68149.	3.6	35
24	Microwave synthesis: Characterization and electrochemical properties of amorphous activated carbon-MnO <sub>2</sub> nanocomposite electrodes. <i>Journal of Alloys and Compounds</i> , 2016, 681, 293-300.	5.5	35
25	Investigation of graphene oxide nanogel and carbon nanorods as electrode for electrochemical supercapacitor. <i>Electrochimica Acta</i> , 2017, 245, 268-278.	5.2	32
26	Enhanced electrochemical response of activated carbon nanostructures from tree-bark biomass waste in polymer-gel active electrolytes. <i>RSC Advances</i> , 2017, 7, 37286-37295.	3.6	31
27	A systematic study of the stability, electronic and optical properties of beryllium and nitrogen co-doped graphene. <i>Carbon</i> , 2018, 129, 207-227.	10.3	29
28	Influence of K <sub>3</sub> Fe(CN) <sub>6</sub> on the electrochemical performance of carbon derived from waste tyres by K <sub>2</sub> CO <sub>3</sub> activation. <i>Materials Chemistry and Physics</i> , 2018, 209, 262-270.	4.0	26
29	High-performance asymmetric supercapacitor based on vanadium dioxide and carbonized iron-polyaniline electrodes. <i>AIP Advances</i> , 2019, 9, .	1.3	26
30	High electrochemical performance of hybrid cobalt oxyhydroxide/nickel foam graphene. <i>Journal of Colloid and Interface Science</i> , 2016, 484, 77-85.	9.4	25
31	Effect of growth time on solvothermal synthesis of vanadium dioxide for electrochemical supercapacitor application. <i>Materials Chemistry and Physics</i> , 2018, 214, 192-200.	4.0	25
32	Remarkable thermal conductivity enhancement in Ag-decorated graphene nanocomposites based nanofluid by laser liquid solid interaction in ethylene glycol. <i>Scientific Reports</i> , 2020, 10, 10982.	3.3	25
33	Effect of growth time of hydrothermally grown cobalt hydroxide carbonate on its supercapacitive performance. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 94, 17-24.	4.0	23
34	Electrochemical performance of hybrid supercapacitor device based on birnessite-type manganese oxide decorated on uncapped carbon nanotubes and porous activated carbon nanostructures. <i>Electrochimica Acta</i> , 2018, 289, 363-375.	5.2	23
35	Nickel-copper graphene foam prepared by atmospheric pressure chemical vapour deposition for supercapacitor applications. <i>Surface and Coatings Technology</i> , 2020, 383, 125230.	4.8	22
36	Thermal conductivity enhancement in gold decorated graphene nanosheets in ethylene glycol based nanofluid. <i>Scientific Reports</i> , 2020, 10, 14730.	3.3	22

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37	Gas sensing study of hydrothermal reflux synthesized NiO/graphene foam electrode for CO sensing. Journal of Materials Science, 2017, 52, 2035-2044.	3.7	20
38	Nanostructured porous carbons with high rate cycling and floating performance for supercapacitor application. AIP Advances, 2018, 8, .	1.3	20
39	Exploring the stability and electronic structure of beryllium and sulphur co-doped graphene: a first principles study. RSC Advances, 2016, 6, 88392-88402.	3.6	19
40	Effect of activated carbon on the enhancement of CO sensing performance of NiO. Journal of Alloys and Compounds, 2017, 694, 155-162.	5.5	19
41	Mixed-acid intercalation for synthesis of a high conductivity electrochemically exfoliated graphene. Carbon, 2021, 171, 130-141.	10.3	19
42	Hybrid electrochemical supercapacitor based on birnessite-type MnO <sub>2</sub> /carbon composite as the positive electrode and carbonized iron-polyaniline/nickel graphene foam as a negative electrode. AIP Advances, 2020, 10, .	1.3	16
43	Raman analysis of bilayer graphene film prepared on commercial Cu(0.5 at% Ni) foil. Journal of Raman Spectroscopy, 2016, 47, 553-559.	2.5	15
44	Characterization of 167 keV Xe ion irradiated n-type 4H-SiC. Applied Surface Science, 2019, 493, 1291-1298.	6.1	15
45	Chemical disorder of a-SiC layer induced in 6H-SiC by Cs and I ions co-implantation: Raman spectroscopy analysis. Applied Surface Science, 2021, 538, 148099.	6.1	15
46	Synthesis and optimisation of a novel graphene wool material by atmospheric pressure chemical vapour deposition. Journal of Materials Science, 2020, 55, 545-564.	3.7	14
47	Electrochemical Studies of Microwave Synthesised Bimetallic Sulfides Nanostructures As Faradaic Electrodes.. Electrochimica Acta, 2015, 174, 778-786.	5.2	12
48	Coating processes towards selective laser sintering of energetic material composites. Defence Technology, 2020, 16, 316-324.	4.2	12
49	Microwave-assisted synthesis of cobalt sulphide nanoparticle clusters on activated graphene foam for electrochemical supercapacitors. RSC Advances, 2017, 7, 20231-20240.	3.6	11
50	The nature of surface defects in Xe ion-implanted glassy carbon annealed at high temperatures: Raman spectroscopy analysis. Applied Surface Science, 2020, 506, 145001.	6.1	10
51	Correlation of the Graphene Fermi-Level Shift and the Enhanced Electrochemical Performance of Graphene-Manganese Phosphate for Hybrid Supercapacitors: Raman Spectroscopy Analysis. ACS Applied Materials & Interfaces, 2021, 13, 37014-37026.	8.0	10
52	Defects in swift heavy ion irradiated n-4H-SiC. Nuclear Instruments & Methods in Physics Research B, 2019, 460, 119-124.	1.4	9
53	A dilute Cu(Ni) alloy for synthesis of large-area Bernal stacked bilayer graphene using atmospheric pressure chemical vapour deposition. Journal of Applied Physics, 2016, 119, .	2.5	8
54	Slow and swift heavy ions irradiation of zirconium nitride (ZrN) and the migration behaviour of implanted Eu. Nuclear Instruments & Methods in Physics Research B, 2019, 461, 63-69.	1.4	8

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55	A wafer-scale Bernal-stacked bilayer graphene film obtained on a dilute Cu (0.61 at% Ni) foil using atmospheric pressure chemical vapour deposition. RSC Advances, 2016, 6, 28370-28378.	3.6	7
56	Raman spectroscopy and imaging of Bernal-stacked bilayer graphene synthesized on copper foil by chemical vapour deposition: growth dependence on temperature. Journal of Raman Spectroscopy, 2017, 48, 639-646.	2.5	4
57	Malathion-filled trilayer polyolefin film for malaria vector control. Materials Science and Engineering C, 2019, 96, 419-425.	7.3	4
58	Reduction of recombination rates due to volume increasing, annealing, and tetraethoxysilicate treatment in hematite thin films. Applied Nanoscience (Switzerland), 2020, 10, 1957-1967.	3.1	4
59	Surface segregation measurements of In and S impurities from a dilute Cu(In,S) ternary alloy. Surface and Interface Analysis, 2013, 45, 1020-1025.	1.8	3
60	Floating of PPY Derived Carbon Based Symmetric Supercapacitor in Alkaline Electrolyte. ECS Transactions, 2017, 75, 1-12.	0.5	3
61	Effect of the annealing atmosphere on the layer interdiffusion in Pd/Ti/Pd multilayer stacks deposited on pure Ti and Ti-alloy substrates. Nuclear Instruments & Methods in Physics Research B, 2019, 461, 37-43.	1.4	3
62	The diffusion doping of Cu crystals with 0.1 at.% In at high annealing temperatures for surface segregation measurements. Thin Solid Films, 2013, 542, 186-191.	1.8	2
63	In-situ study of platinum reaction with oxygen contaminated silicon layer. Nuclear Instruments & Methods in Physics Research B, 2020, 467, 27-32.	1.4	1
64	Coating Processes Towards Selective Laser Sintering of Energetic Materials. , 0, , .		0